
Digital Trunk Interface replacement

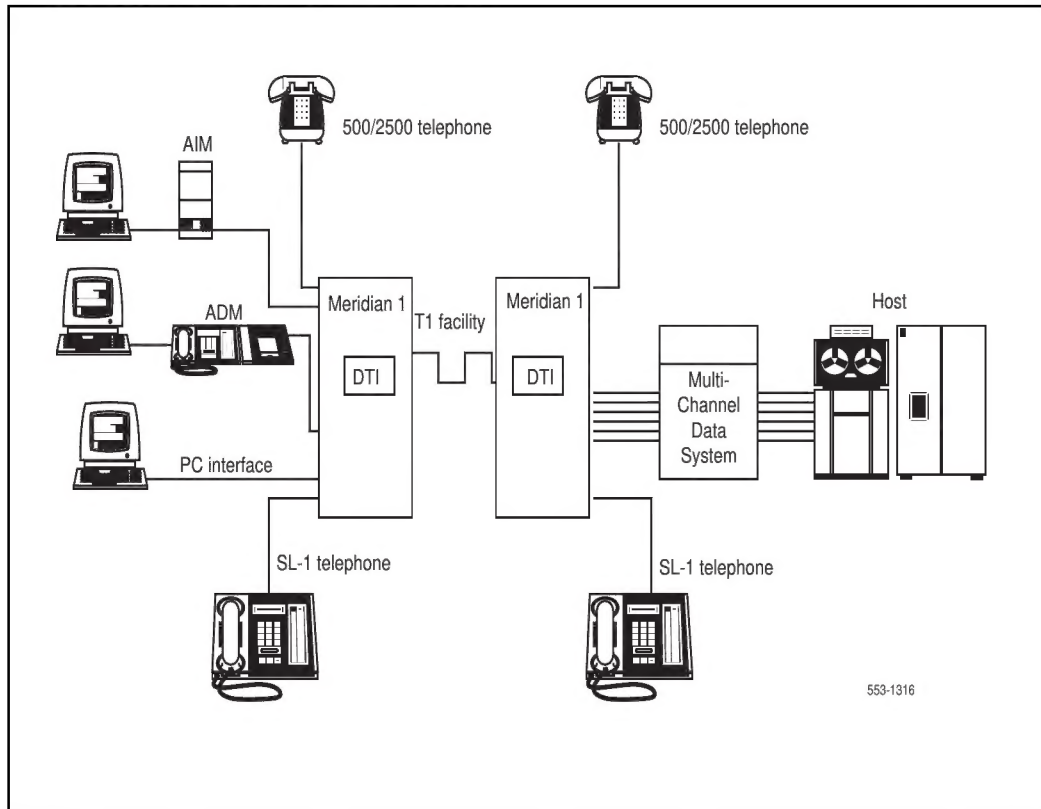
Digital Trunk Interface (DTI) provides the means for transmitting digital voice and data between a network loop and a DS-1 digital carrier terminal (see Figure 28). DTI interfaces to DS-1/D3 digital carriers, which may use infrared, fiber optic, microwave radio, satellite link, or leased T1 facilities. See *Digital Trunk Interface/Computer-to-PBX Interface description* (553-2811-100) for a detailed description of the DTI feature.

The QPC720 PRI circuit card can replace the QPC472 DTI card for DTI applications. The QPC720 PRI can work with X11 release 5 and later software. However, with Extended superframe (ESF) format and DTI, the QPC720 PRI requires X11 release 14 software and above.

X11 release 15 and later software provides an option for the following recoveries:

- automatic recovery from bit error rate occurrences
- automatic recovery from loss of frame alignment occurrences
- automatic recovery from frame slips (free-run nontracking mode only)
- automatic clock recovery after a red alarm (local alarm) condition
- channel recovery set to the same state as the far end (TIE trunks only)

Figure 28
Digital Trunk Interface communication



Feature implementation

Use the following steps to configure PRI as a DTI replacement. Refer to “Configuring PRI” on page 31 for a complete discussion.

1 LD 60 DTI Diagnostic

Disable existing DTI loop.

2 LD 14 Trunk Data Block

Remove all trunks.

3 LD 16 Route Data Block

Remove route data block.

4 LD 17 Configuration Record.

Remove loop.

5 LD 73 Digital Data Block

Set error detection thresholds and clock synchronization control.
Required only when configuring PRI for the first time. Optional for subsequent configurations.

6 LD 17 Configuration Record

Add a PRI loop.

7 LD 73 Digital Data Block

Change existing thresholds, or change tracking modes.
This can be done any time after step 2.

8 LD 17 Configuration Record

Add a DCHI card and the D-channel link.
(X11 release 17 and earlier)

OR

9 LD 17 Configuration Record

Add a DCHI card, or an MSDL card and the D-channel link.
(X11 release 18 and later)

10 LD 15 Customer Data Block

Define a PRI customer.

Required only when configuring a new customer. If a customer is already defined, skip this procedure.

11 LD 16 Trunk Route Administration

Configure PRI trunk routes.

12 LD 14 Trunk Administration

Add PRI trunks.